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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

U.S. PATENT DOCUMENTSFOREIGN PATENT DOCUMENTSOTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Signature _____

/Dwin Craig/ (09/24/2007)

Date Considered

- + An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).

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Sheet

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of

5

Application Number

09/593.647

Filing Date

June 13, 2000

First Named Inventor

HAGENBUCH, LeRoy G.

Group Art Unit

2123

Examiner Name

Eduardo Garcia-Ostero

Attorney Docket Number

204559

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner Initials	Doc. No.	Foreign Patent Document			Name of Patentee or Applicant	Date of Publication	Translation	
		Office	Application or Patent Number	Kind Code			Yes	No**
/DC/	A X	WO	00/076805	A1	Philippi-Hagenbuch, Inc	12/2000		

OTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation	
			Yes	No**
/DC/	A Y	DUFF, Elliot, " <u>Automated Volume Measurement of Haul-Truck Loads</u> ", CSIRO Manufacturing Science and Technology, Presented at Open Coal Cut Operations Conference, Mackay, Queensland, June 16, 2000		
/DC/	A Z	HAGENBUCH, LeRoy G., <u>SME Preprint 02-137</u> entitled " <u>Off-Highway Truck Body True Capacity. . . Why Can't I Get Rated Payload on My Off-Highway Truck Without Hungry Boards and Tail Extensions</u> ", available in the late 1960's to early 1970's	1970's	

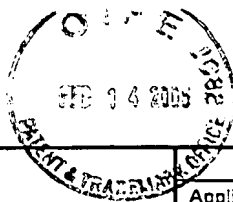
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Substitute for form 1449A/B/PTO

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OTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation	
			Yes	No**
/DC/	BA	"Capacity Rating—Dumper Body and Trailer Body—SAE J1363 Nov 95," 1999 SAE Handbook-Volume 3 On-Highway Vehicles and Off-Highway Machinery, Society of Automotive Engineers, Inc.		
	BB	"Earth-Moving Machinery-Dumper Bodies-Volumetric Rating," <i>International Standard ISO 6483</i> , 1980, p. 1-5.		
	BC	"Komatsu Price Changes," <i>Equipment Watch Price Alert</i> , August 2002.		
	BD	Komatsu 930E-2 truck spec sheet, June 2002.		
	BE	"Caterpillar Price Changes," <i>Equipment Watch Price Alert</i> , January 2003		
	BF	Caterpillar 777D Off-Highway Truck, spec sheet, June 2000.		
	BG	"Mining Lifts Goldfields Crane Hire," <i>Australia Mining Monthly</i> , December 2002, p. 67		
	BH	"Detroit Diesel-We'll Move Mountains for You," <i>Australia Mining Monthly</i> , August 2003		
	BI	"Trucks & Shovels," <i>World Mining Equipment</i> , September 2003, Vol. 27, No. 7 (including Komatsu PC 3000 ad and truck/shovel loading photos)		
	BJ	<i>North American Quarry News</i> , 2003-DBT Mineral Processing ad		
	BK	<i>Mining Engineer</i> , front cover; May 2003		
	BL	"P&H 2800 XP Shovel," <i>Perspective in Mining</i> , Vol. 7, No. 2, p. 4 date unavailable		
	BM	"Excavator Selection," <i>Peak & Performance Practices</i> , front cover date unavailable		
	BN	"Angles of Repose (Heap)"; Chart, Philippi-Hagenbuch, Inc. 2003		
	BO	Oner, Mete, "Deep Dark Secrets of Geotechnical Engineering," <i>EJGE/Magazine</i> , internet article 1997; p. 1-4		
	BP	"B.2.60 Angle of Repose," web page from <i>Michigan State University Department of Physics and Astronomy Lecture Demonstrations Databases</i> , downloaded September 28, 2003.		
	BQ	"Angle of Repose," web page from <i>Michigan Tech University</i> , downloaded September 28, 2003.		
	BR	"Angle of Repose," web page from <i>NCSU Physics DemoRoom</i> , downloaded September 28, 2003.		
	BS	"Angle of Repose and Angle of Marginal Stability," web page from http://www.hhrs.de/people/mueller/papers/parallelMD99/node3.html , downloaded September 28, 2003.		
	BT	"Angle of Repose," web page from <i>www.HyperDictionary.com</i> , downloaded September 28, 2003.		
	BU	"Angle of Repose," web page from <i>University of Texas at Austin Physics Department</i> , downloaded September 28, 2003.		
	BV	Faris, Roger, "Find Your Safe Angle of Repose," internet article from <i>The Seattle Press</i> , downloaded September 28, 2003.		
	BW	"Mass Wasting and the Angle of Repose," internet article from http://phoenix.liuvent.edu/~divernere/notes/angle_of_repose.htm ; p. 1-3, downloaded September 28, 2003.		
	BX	Angle of Repose diagram from Brunner Mond, undated date unavailable		
	BY	"Angle of Repose," charts from web page http://www.geol.umd.edu/~kaufman/ppp/chapter8/sld006.htm ; p. 1-2, downloaded October 4, 2003.		
✓	BZ	Lee, J. et al., "Angle of Repose and Angle of Marginal Stability: Molecular Dynamics of Granular Particles," abstract article from <i>www.IOP.org/EJ/abstract/0305-4470/26/2/01</i> ; p. 1-2, January 21, 1993.		
/DC/	CA	"Angle of Repose," web page from <i>www.RCRC.nm.org/glossary/gl-angle-of-repose.html</i> , downloaded September 28, 2003.		

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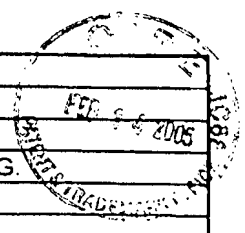
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 Examiner Name Eduardo Garcia-Ostero
 Attorney Docket Number 204559



Sheet	3	of	5	Attorney Docket Number	204559
DCI	CB	Olson, C.J. et al., "Effect of Grain Geometry on Angle of Repose and Dynamics," internet article from www.eps.org/aps/meet/MAR01/baps/abs/S338005.html , downloaded September 28, 2003.			
	CC	"Effect of Water on the Angle of Repose," slide 2 of 35 from internet site www.ideo.columbia.edu/dees/ees/ies2/masswasting/sld002.html , downloaded September 28, 2003.			
	CD	"Dynamics Angles of Repose," internet article from http://groups.physics.umn.edu/sand/theory.shtml ; p. 1-2, downloaded September 28, 2003.			
	CE	Morisawa, Marie, "Stable Angles of Slopes," from www.beloit.edu/~SEPM/Earth_Works/Stable_angles_of_slopes.html ; p. 1-4, downloaded September 28, 2003.			
	CF	Park, Brien, "What do you suppose is the "angle of repose"?", web article from www.nps.gov/brca/Geodetect/Earth%20Systems/angle%20of%20repose.htm ; p. 1-4, July 9, 2002.			
	CG	"Sand Angels," web article from www.edgerton.org/kidscorner/sandangels.html ; p. 1-2, downloaded September 28, 2003.			
	CH	Excerpt from "Highways in the River Environment," p. 1-4; 1975.			
	CI	"Sand Piles," web page from http://van.hep.uiuc.edu/van/qa/section/Everything_Else/Hard_to_Categorize/924816567.htm , downloaded September 28, 2003.			
	CJ	"Slope Stability Lab," web page from www.geo.arizona.edu/K-12/azpepp/education/activity/la.html ; p. 1-4, downloaded September 28, 2003.			
	CK	"The Angle of Repose and the Static Coefficient of Friction," web page from www.redcompservices.com/Pcourses/Phys1/repose.htm ; p. 1-2, downloaded September 28, 2003.			
	CL	Prompalagorn, Wiroj et al., "Friction Coefficient & Angle of Repose Equipments," web abstract from http://library.kmitnb.ac.th/projects/eng/MHT/mht0096e.html , 1996			
	CM	"Slope Stability Lab," p. 1-4 (undated) date unavailable			
	CN	"Angle of Repose," slide 3 of presentation, http://www3.uakron.edu/geography/lrb/physf97/lectures/masswaste/sld003.htm , downloaded September 28, 2003.			
	CO	Chase, George G., "Solids Notes," University of Akron (undated), pp. 4-1 and 4-2, date unavailable			
	CP	"Mass Wasting," (undated); p. 1-7; date unavailable			
	CQ	"CHASM: Cone Handling Algorithms for Stockpile Modeling," web article from www.cmis.csiro.au/PPI/RecentProjects/CHASM.htm ; p. 1-3, downloaded September 28, 2003.			
	CR	"Axial Segregation in Binary Granular Flows," abstract from www.aae.uiuc.edu/floatr/C%20PROJ/pp02-03f.htm ; p. 1-2, downloaded September 28, 2003.			
	CS	Bulk-Store Structures Inc. internet brochure from www.bulk-store.ca/fert.html ; p. 1-3; 2000			
	CT	Commercial Hopper Tank Storage Capacities and Heights spec sheet; 2002.			
	CU	"Volcanism Behind the Main Arc," web page from www.rci.rutgers.edu/~carr/fieldtrip/fieldtext/cuilapa_fldtxt.htm , downloaded September 28, 2003.			
	CV	"Screening Equipment," SMICO Manufacturing web page www.smico.com , downloaded October 1, 2003.			
	CW	"Material Bulk Density Reference Chart," SMICO Manufacturing; p. 1-20 (undated) date unavailable			
	CX	Hudson, Ralph G., <i>The Engineers' Manual</i> ; Second Edition 1963; p. 101-102.			
	CY	"Storage of Farm Crops," <i>Agricultural Engineers' Handbook</i> ; p. 691, 1961			
V	CZ	"Approximate Angle of Repose of Various Materials," <i>Caterpillar Performance Handbook</i> ; January 1972, p. 25.			
DCI	DA	"Tables-Angle of Repose of Various Materials," <i>Caterpillar Performance Handbook</i> , October 2002, p. 26-1.			

DmC

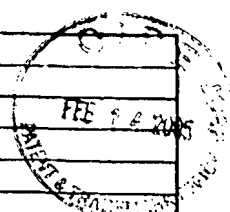
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 Examiner Name Eduardo Garcia-Ostero
 Attorney Docket Number 204559



Sheet	4	of	5
/DC/	DB	"Material Angles of Repose," chart from Philippi-Hagenbuch, Inc., 2003	
	DC	Photographs from Caterpillar brochures featuring: 785 Truck (4-88) -AEHQ7006 (undated).	
	DD	Photographs from Caterpillar brochures featuring 785C Mining Truck (4-02)-AEHQ5328-02 (undated) date unavailable	
	DE	Photographs from Caterpillar brochures featuring 785/789 Truck (AEDK1468) (undated) date	
	DF	Photographs from Caterpillar brochures featuring 775B Truck (4-94)-AEHQ3874 (undated) date unavailable	
	DG	Photographs from Caterpillar brochures featuring 773E Truck (11-01)-AEHQ5456 (undated) date unavailable	
	DH	Photographs from Caterpillar brochures featuring 775E Truck (11-01)-AEHQ5457 (undated) date unavailable	
	DI	"Density of Common Materials," <i>The Excavators 5th Edition-Hitachi</i> ; sections 11-36:11-39 (undated). date unavailable	
	DJ	"Tables: Weight of Materials," <i>Caterpillar Performance Handbook Edition 33</i> , October 2002.	
	DK	Caterpillar General Dimensions 769B Truck (undated).	
	DL	Caterpillar Body Assembly 769B Truck (undated).	
	DM	Sideview drawing showing "Ten Different Load Configurations-Load Heaps for the Caterpillar 769B Body, created by Philippi-Hagenbuch, 2003.	
	DN	"Four "A" Size Isometric Drawings displaying one each possible 1.7:1 load configuration-load heap," for the Caterpillar 769B Truck; created by Philippi-Hagenbuch, 2003.	
	DO	1.7:1 Heap (1:1 at rear) 30.2 cu yd. date unavailable	
	DP	1.7:1 (True Heap) 27.5 cu yd date unavailable	
	DQ	1.7:1 Profiled Heap (to a point) 26.0 cu yd date unavailable	
	DR	1.7:1 Profiled Heap (with top plateau) 25.8 cu yd date unavailable	
	DS	"3M Mining" advertisement in <i>Mining Monthly</i> ; August 2003.	
	DT	CSIRO-Common Wealth Scientific & Industrial Research Organization of Australia; website home page, downloaded October 5, 2003	
	DU	"New Technology to Measure Mining Haul Truck Loads," CSIRO Press Release July 1, 2003.	
	DV	"New Technology to Measure Mining Haul Truck Loads," article from http://www.cmit.cisro.au/innovation/2003.08 ; p. 1-2, downloaded August 22, 2003.	
	DW	"A Proud History," <i>Euclid Haulers</i> brochure; p. 2; 1988.	
	DX	"2:1 Heap," <i>Euclid-Hitachi</i> brochure; p. 4; 1995.	
	DY	"2:1 SAE Heap," <i>Euclid-Hitachi</i> brochure; p. 4; 1999.	
	DZ	"2:1 SAE—Euclid R130," <i>VME Americas Inc.</i> ; p. 4; 1989.	
	EA	"2:1 SAE—Euclid R190," <i>VME Americas Inc.</i> ; p. 4; 1990.	
	EB	"2:1 SAE—Euclid R25," <i>Euclid Inc.</i> ; 1982.	
	EC	"2:1 Field Heap—Euclid R35," <i>Euclid Inc.</i> ; 1983.	
	ED	"SAE 2:1 Rated Heap," <i>VME Industries North America</i> ; 1992	
	EE	Caterpillar, "Mine Specific Design (MSD) Body Program". from CD distributed October, 2000 at Mine Expo 2000	
	EF	Conymet, "Photometry Software Tool for Volumetric and Load Distribution Study", downloaded from www.conymet.com ; November 26, 2002	
V	EG	Conymet, "High Efficiency Body (HE Series)", from presentation given May 2002 at Haulage 2002 Conference.	
/DC/	EH	Disca. "DT-HILOAD Haulage 2002", from presentation given May 2002 at Haulage 2002 Conference	
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